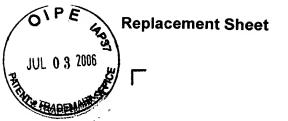


Fig.1 (PRIOR ART)



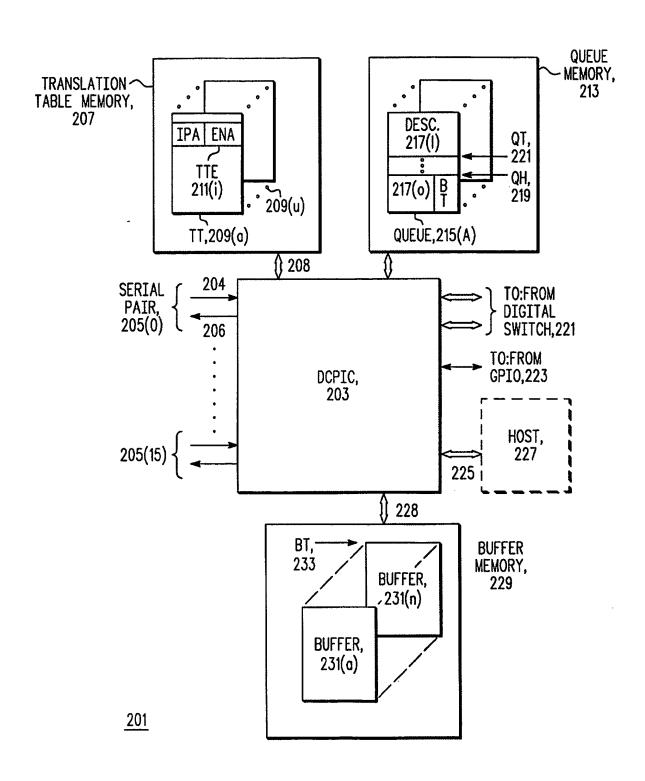


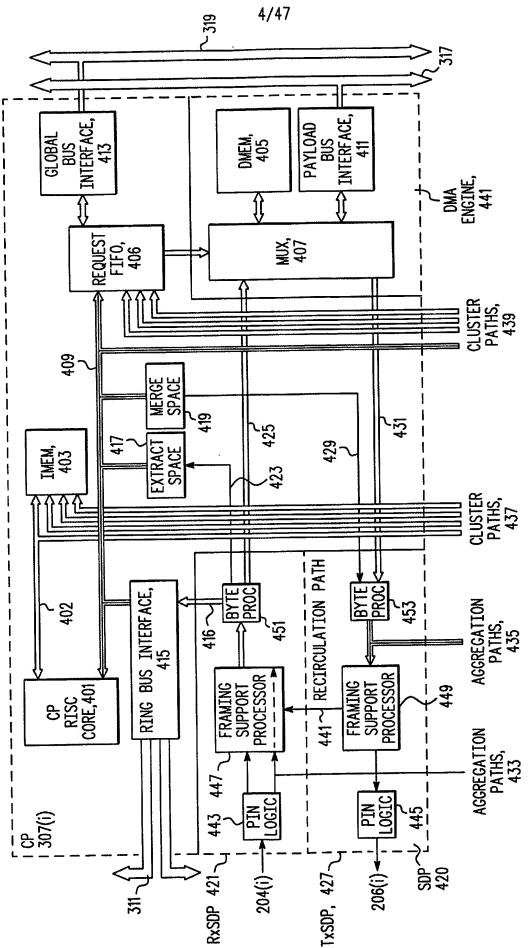
Fig.2

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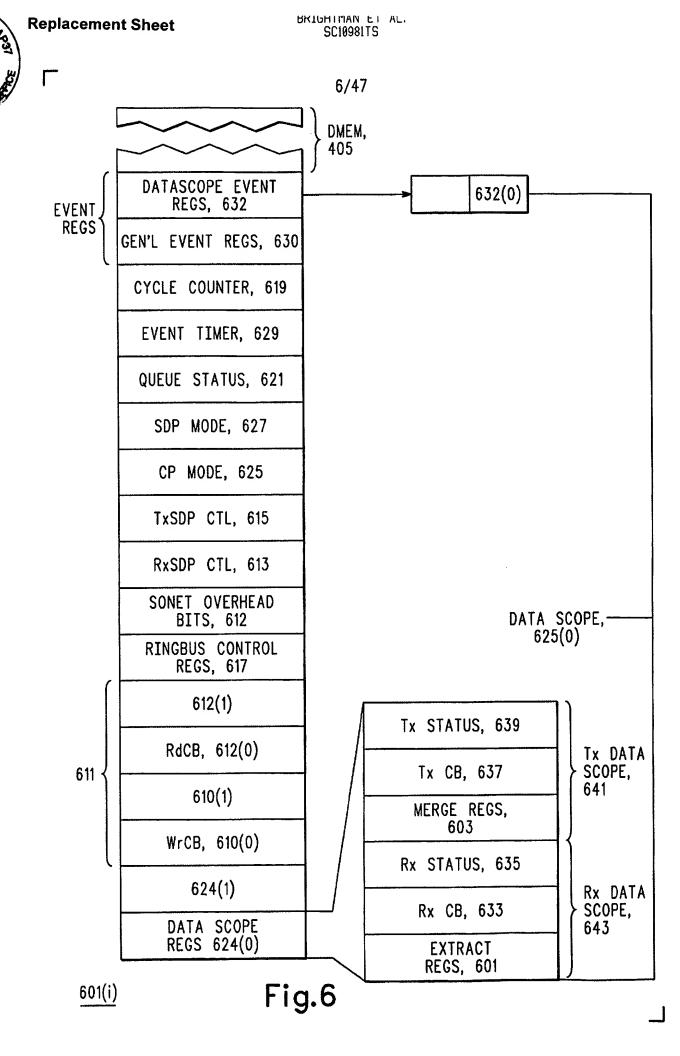
A PARTY PARENT



SYSTEM INTERFACE CONFIG. INFO, 521 GLOBAL CONFIG. REGS., 519 BUFFER STATUS, 515 MAILBOXES, 511 QUEUE STATUS, 509 FP LOCAL MEMORY, 505	XP LOCAL MEMO 517 BME LOCAL MEMORY,513 QME LOCAL MEMORY,507	
501(15)		
])	MEMORY,
501(3)		504 FOR
501(2)	CLUSTER	CHANNEL PROCESSORS 307(015)
501(1)	> MEMORY, 503(0)	
CHANNEL PROCESSOR LOCAL MEMORY 501(0)		

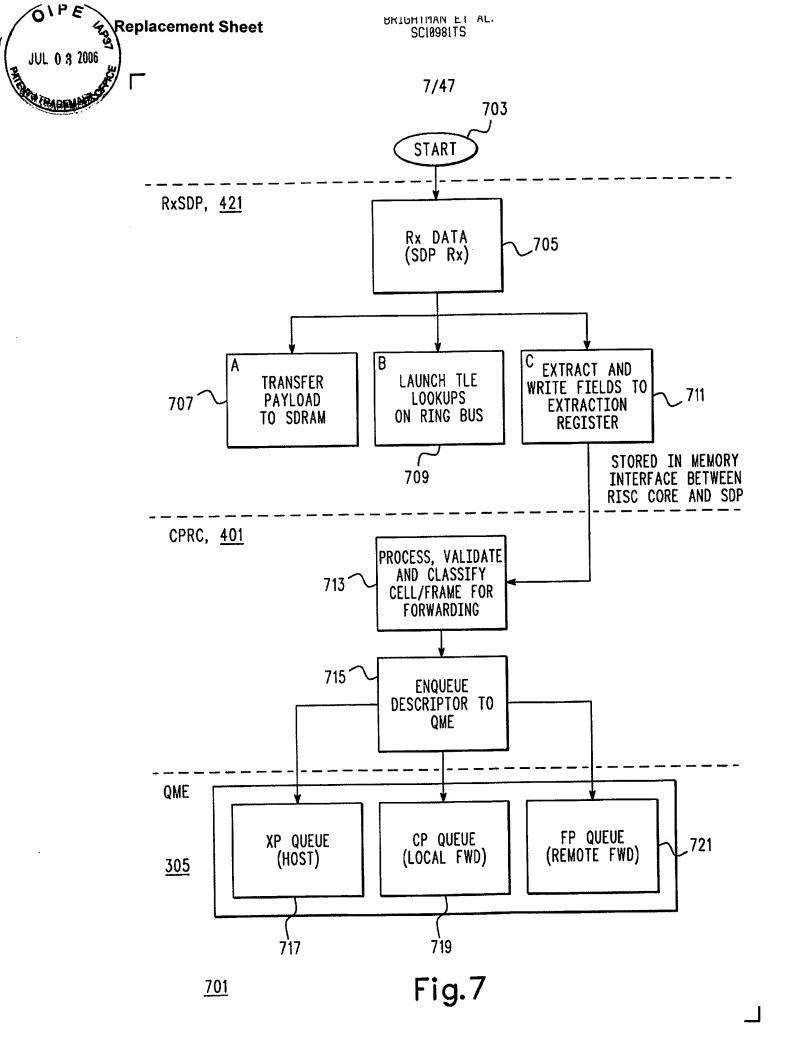
<u>321</u>

Fig.5



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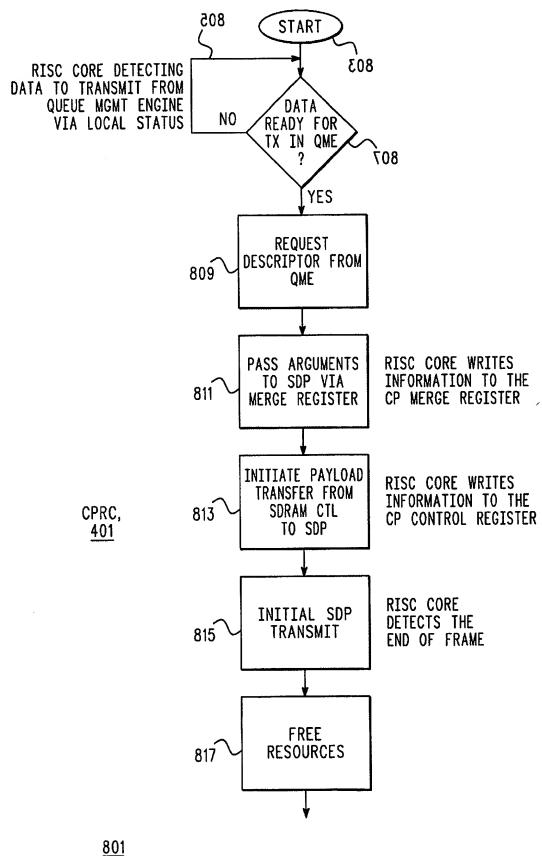


Fig.8



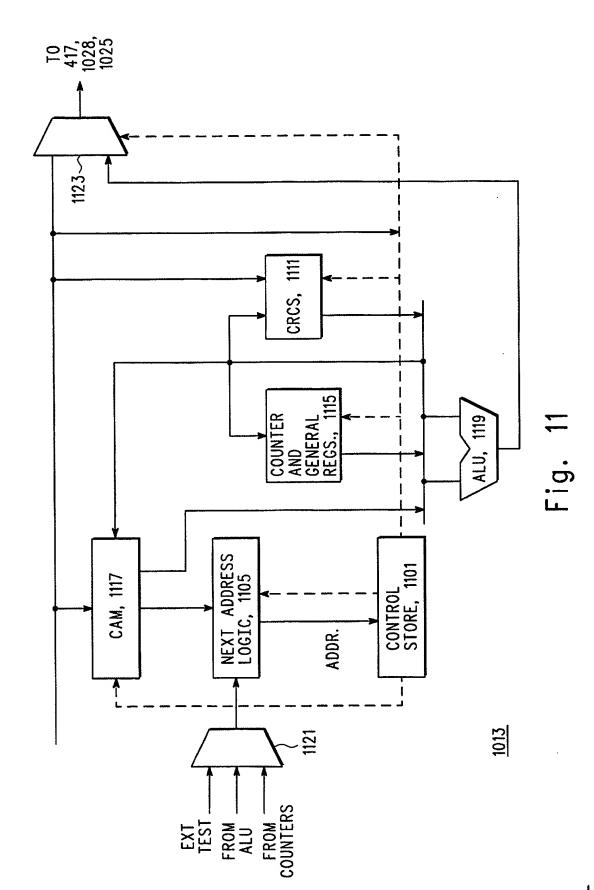
OWN	L5:L0	RUSY
935	937	941

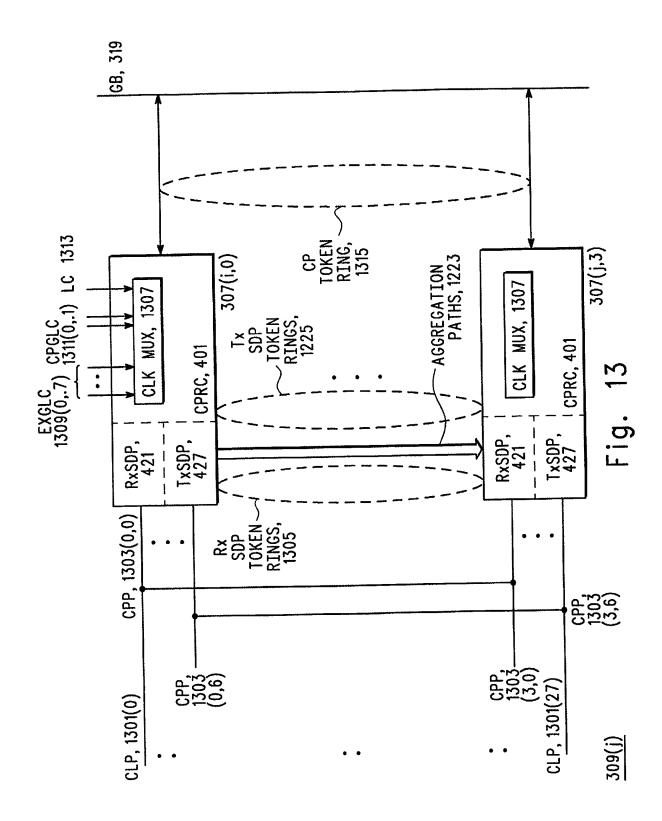
<u>635</u>

BTAG, 933							
OFFSET, 931							
Av, 929							
SDPST, 915							
LENGTH, 911							
BUFFER POOL NO, 909							
DMEM DMAADDR, 907							
TxRcy ADDR., 905							
RxRcy ADDR., 903							
DMEM BYTE ADDR., 901							

RxCBCTL, 913

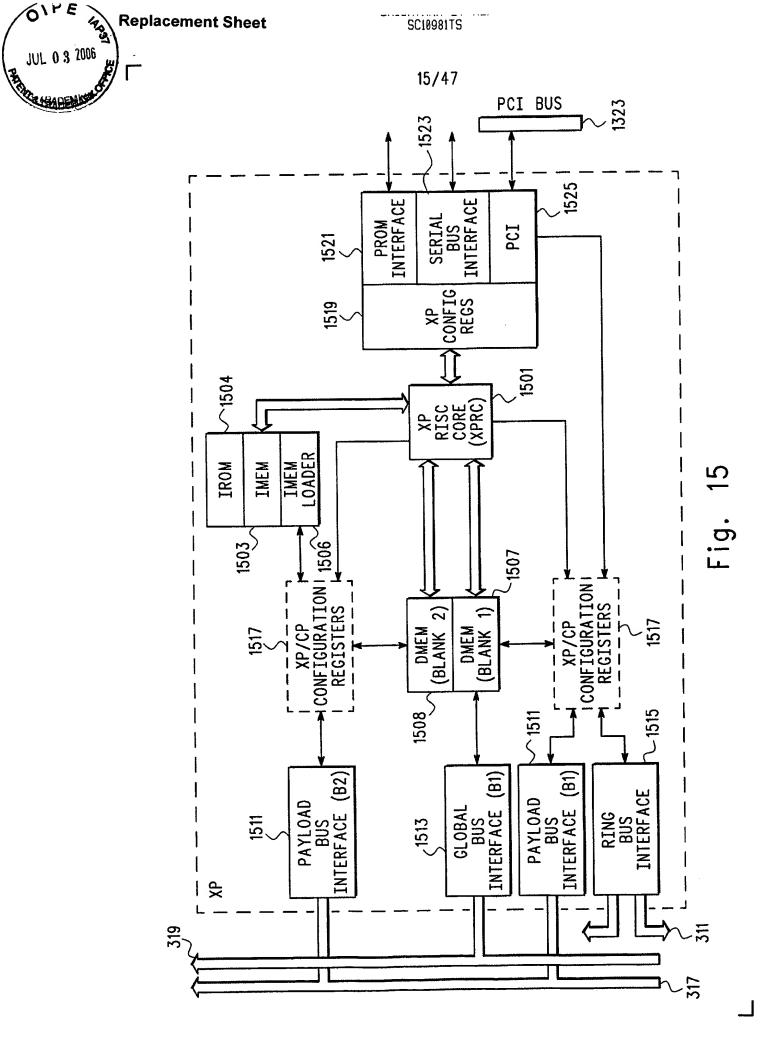
633 Fig.9



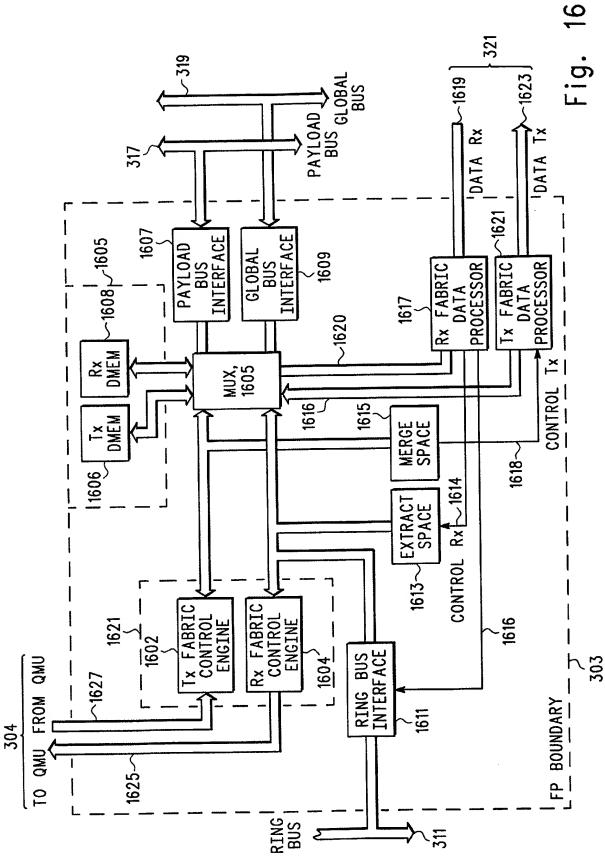


MEM, 503(i,3)				503(i,2)			
SDP, 1403	DMEM, 405	BUS CONTROL, 1405		BUS CONTROL	DMEM	SDP	
RISC CORE, 1407	IMEM, 403				IMEM	RISC CORE	
			$\overset{\circ}{\Longrightarrow}$		SIM	EM, 1409	
RISC CORE	IMEM				IMEM	RISC CORE	
SDP	DMEM	BUS CONTROL		BUS CONTROL	DMEM	SDP	
503(j,0)			<u>509</u>	503(j,1)			

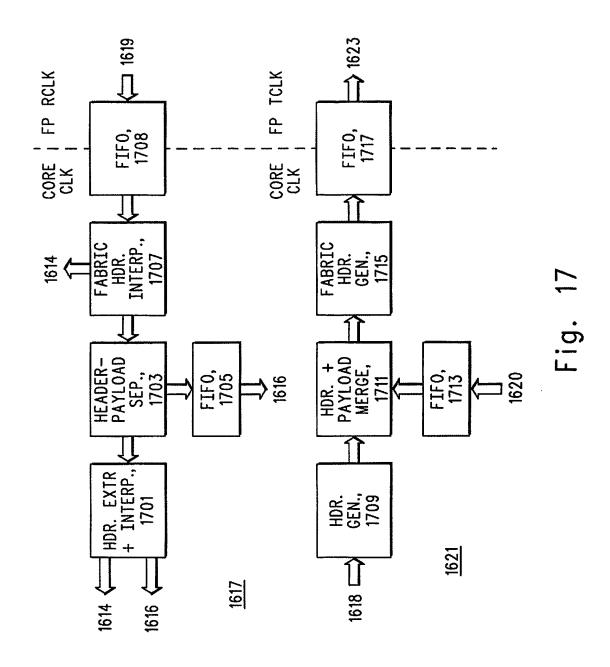
Fig. 14

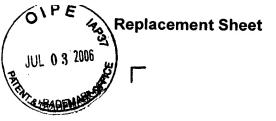


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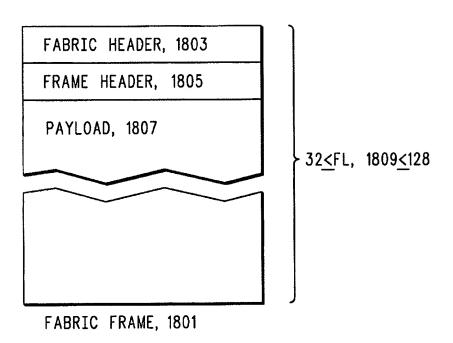


Fig. 18

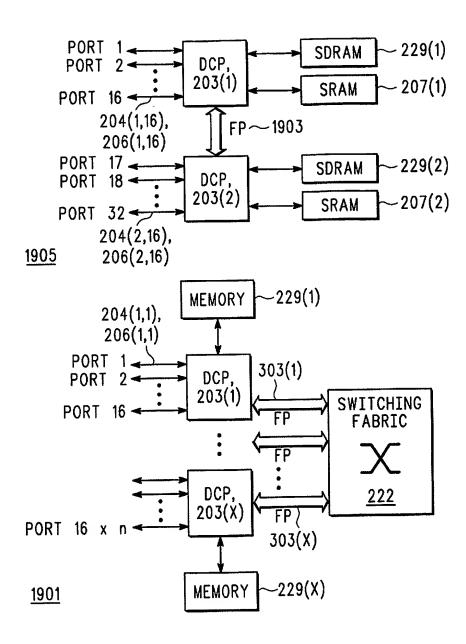
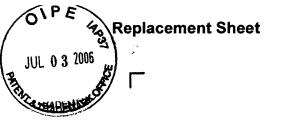
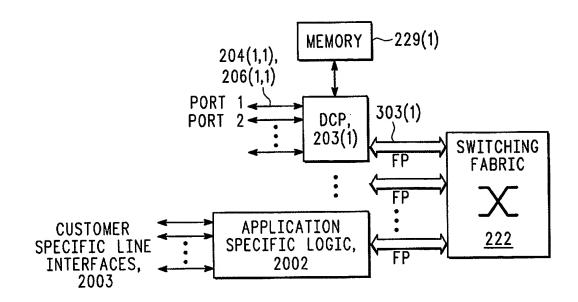


Fig. 19





2001

Fig. 20

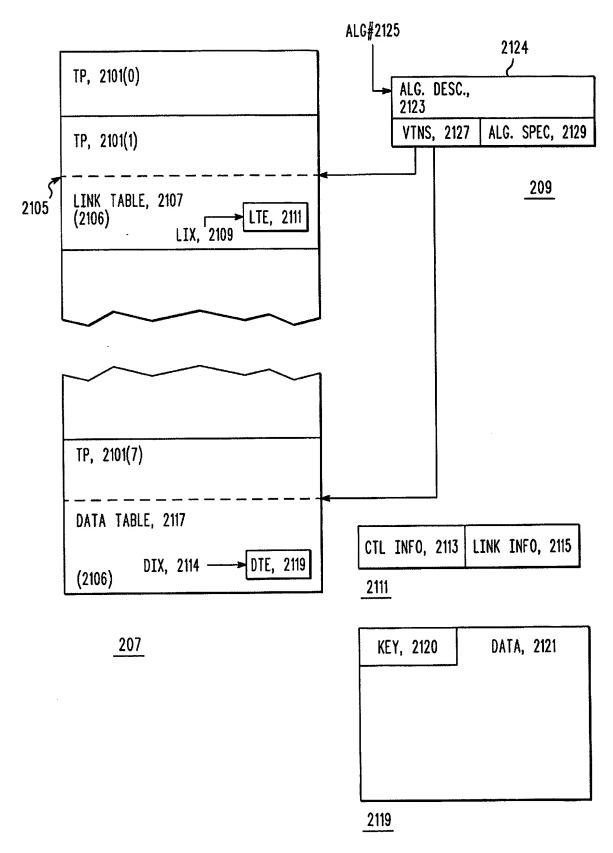
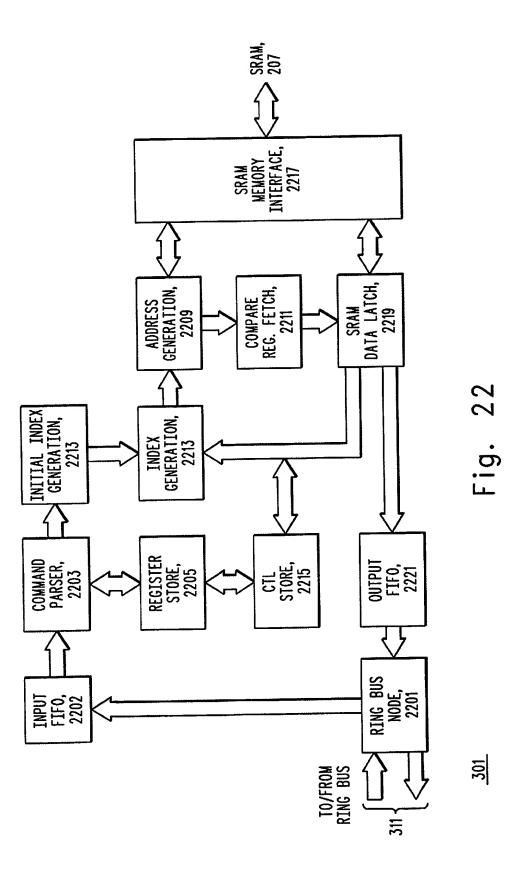
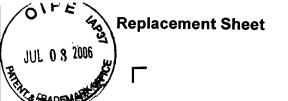


Fig. 21



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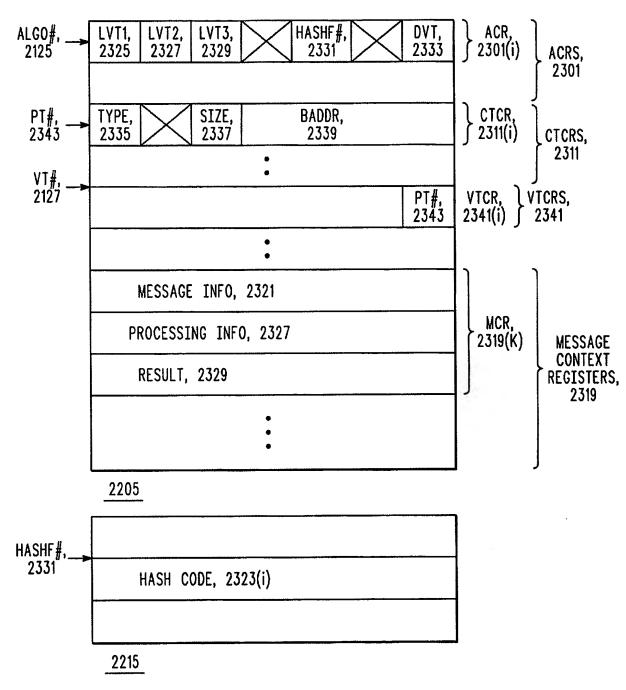
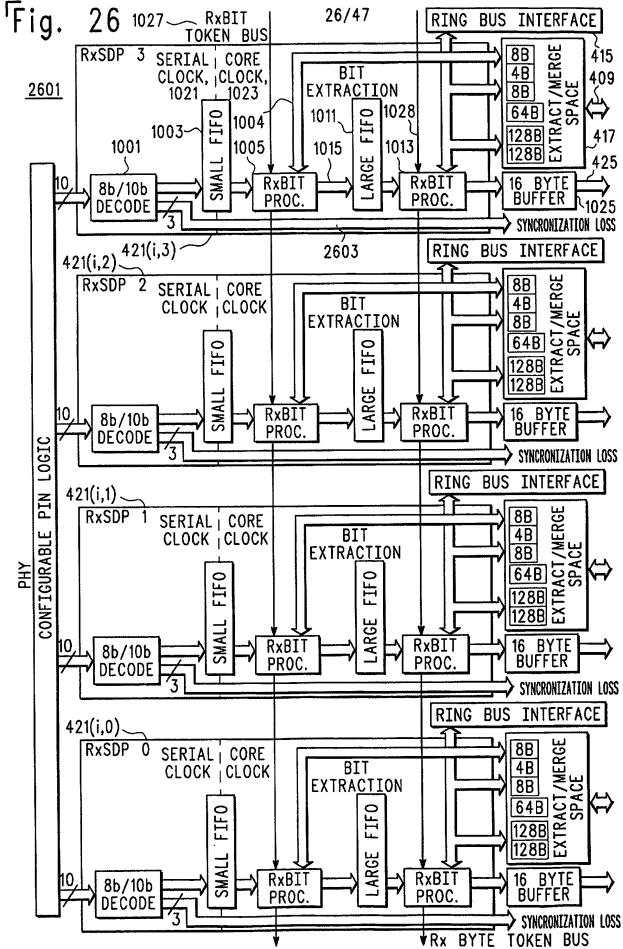


Fig. 23

	COMMAND	COMMAND ID	RETURN DATA	DESCRIPTION	
2421	WRITE(VTABLE∄,INDEX, MASK,DATA,OFFSET, LENGTH)	0X2	NONE	WRITE DATA INTO A VIRTUAL TABLE AT INDEX.	℃ 2401
	READ(VTABLE#,INDEX, OFFSET,LENGTH)	0X3	DATA	READS DATA FROM A VIRTUAL TABLE.	℃ 2403
	FINDW(ALG # ,KEY)	0X6	PHYSICAL TABLE, INDEX, ERROR	FINDS A KEY USING ALG#. SETS RING BUS ERROR FLAG IF KEY IS NOT FOUND.	℃ 2405
2423	FINDW(ALG#,KEY,DATA, OFFSET,LENGTH)	0X4	PASS/FAIL, INDEX, ERROR	WRITES DATA INTO A TABLE USING A KEY. SETS RING BUS ERROR FLAG IF THE KEY IS NOT FOUND.	<u></u>
	FINDR(ALG∦,KEY,DATA, OFFSET,LENGTH)	OX5	PASS/FAIL, INDEX, DATA	READS LENGTH DWORDS OF DATA FROM A VTABLE# USING A KEY AT OFFSET DWORDS. SETS RING BUS ERROR FLAG IF THE KEY IS NOT FOUND	∼ 2409
2425	XOR(VTABLE#,INDEX, DATA/PCRC,OFFSET, WASK,CRC,LAST)	OX1	NONE OR CRC IN CRC MODE	XOR'S UP TO A 32 BIT VALUE TO OFFSET. ONLY MASKS OF UP TO FOUR CONSECUTIVE BYTES ARE VALID. A SPECIAL MODE EXISTS FOR CRC CALCULATIONS.	2411 ر
	ADD(VTABLE∦,INDEX, DATA,OFFSET,MASK)	0X7	NONE	ADDS UP TO A 32-BIT VALUE TO OFFSET. ONLY MASKS OF UP TO FOUR CONSECUTIVE BYTES ARE VALID.	²⁴¹³
0407	WRITEREG(REG-ADDR, DATA)	0X0,0x10	NONE	WRITE DATA TO TLE REGISTER AT REG_ADDR.	<u>2415</u>
2427	READREG(REG_ADDR, DATA)	0X0,0x11	DATA	READ DATA FROM TLE REGISTER AT REG_ADDR.	2417
	ECHO(DATA)	0X0,0x04	DATA	RETURN DATA FROM TLE FOR TEST PURPOSES	£2419
	NOP()	0X0,0x05	NONE	INSERTS A NOP INTO THE TLE PIPE	℃ 2420

Fig. 24



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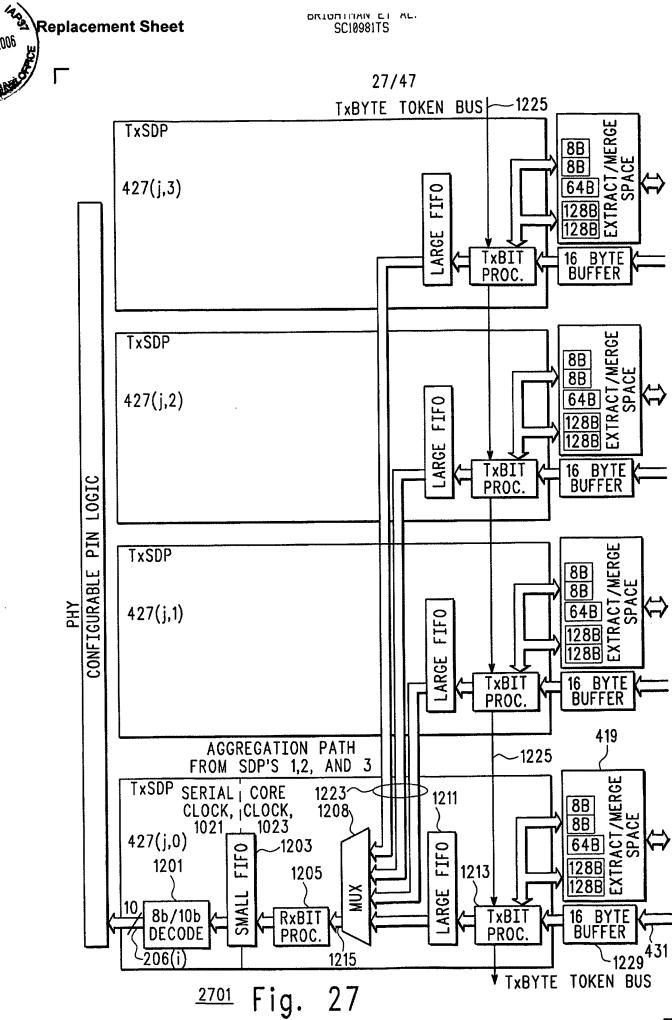
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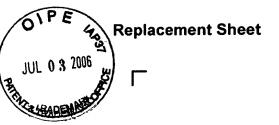
Replacement Sheet

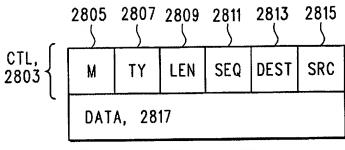
∕0′

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FRANK MARKET







RING BUS MESSAGE, 2801

Fig. 28

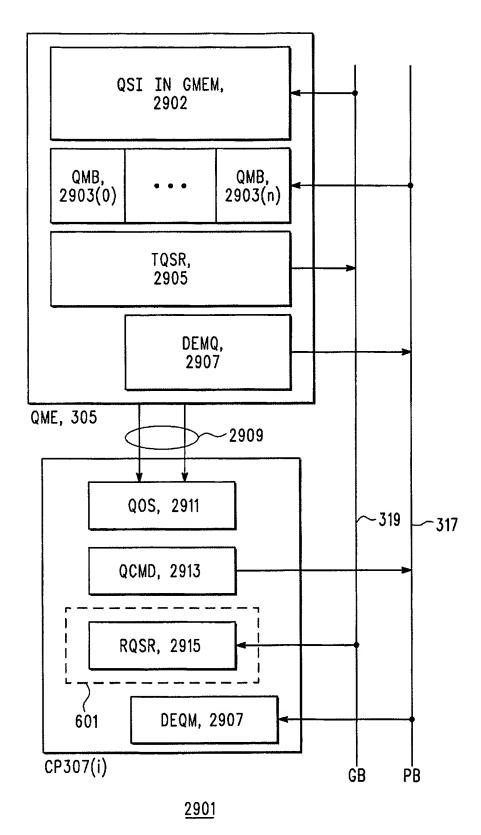


Fig. 29

Replacement Sheet

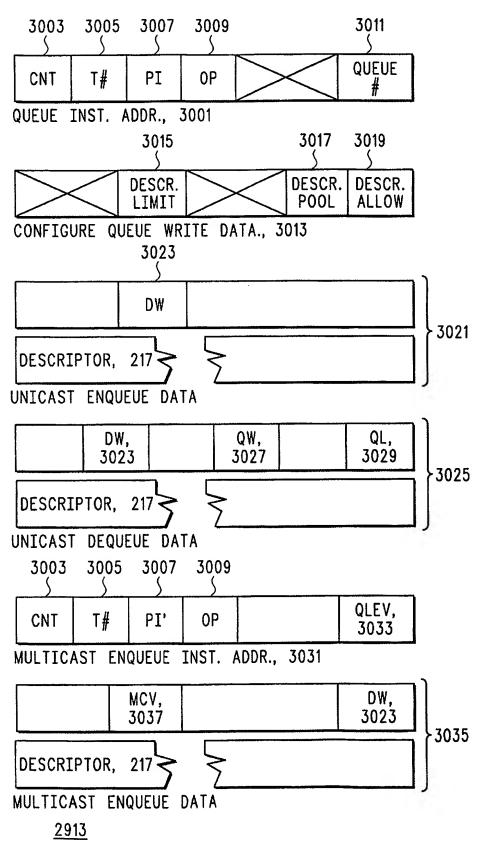
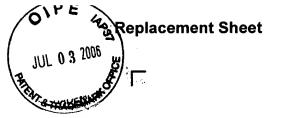


Fig. 30



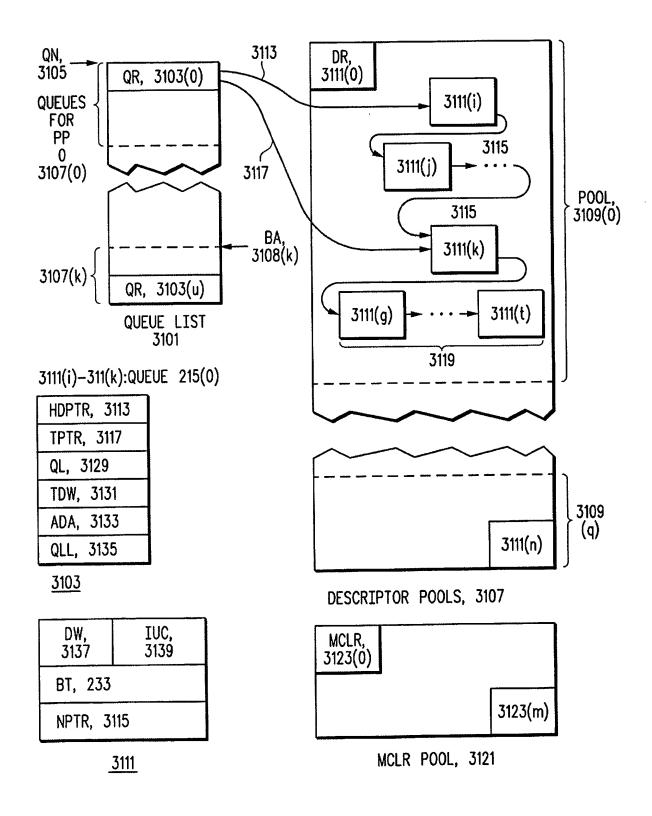
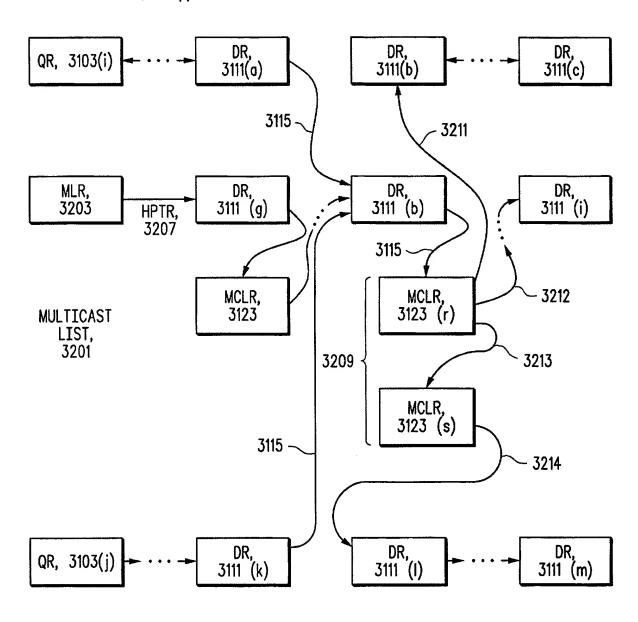


Fig. 31

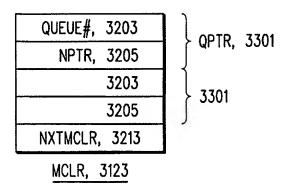
UNICAST QUEUE, 215(i)



UNICAST QUEUE, 215(j)

Fig. 32





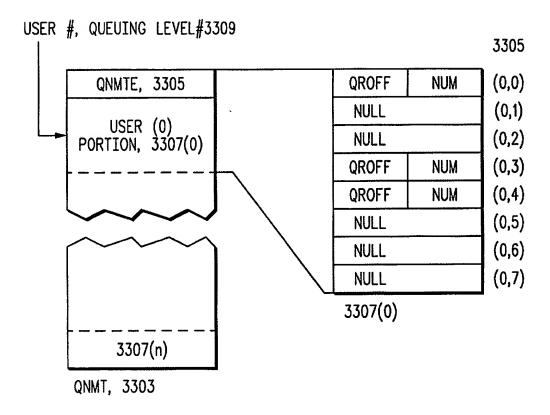
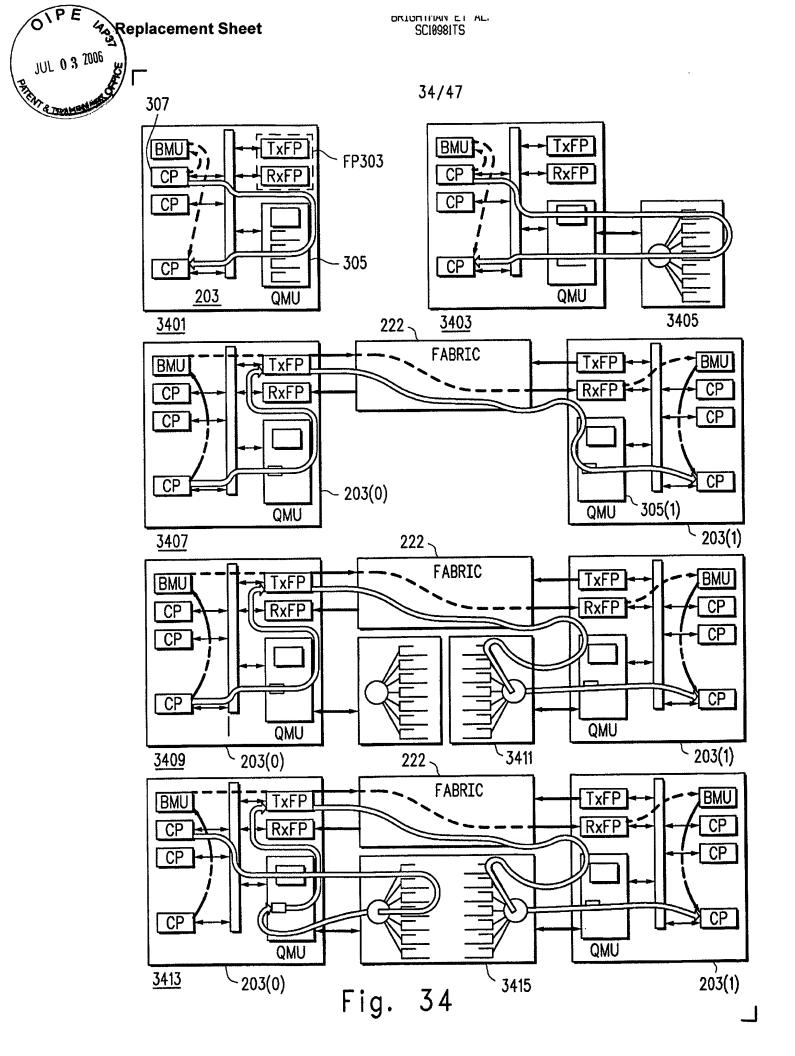


Fig. 33



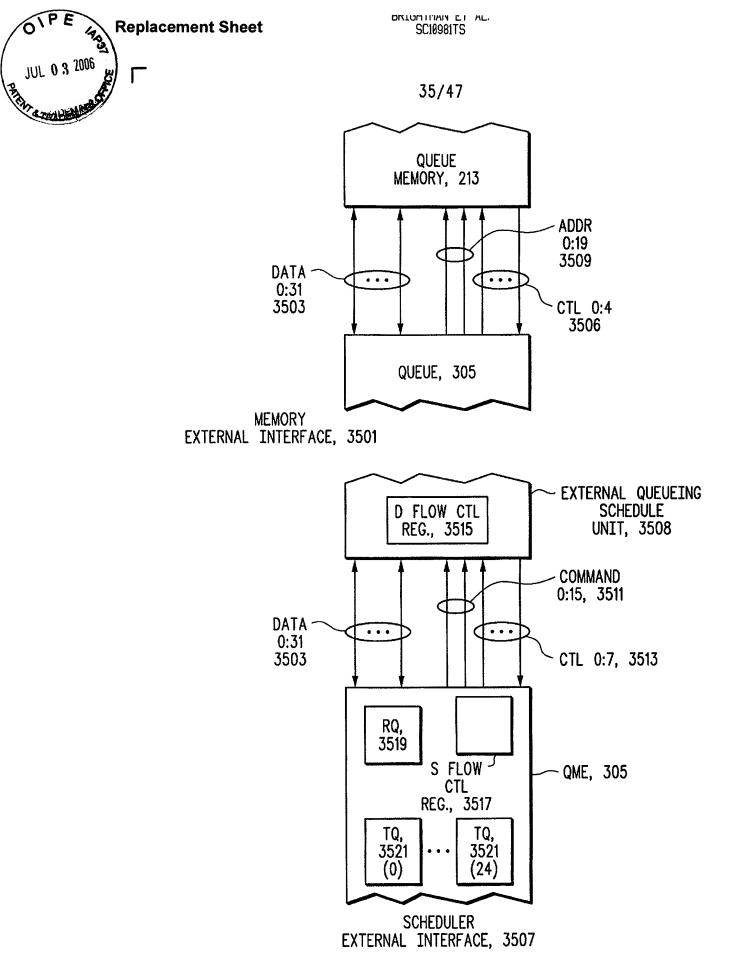
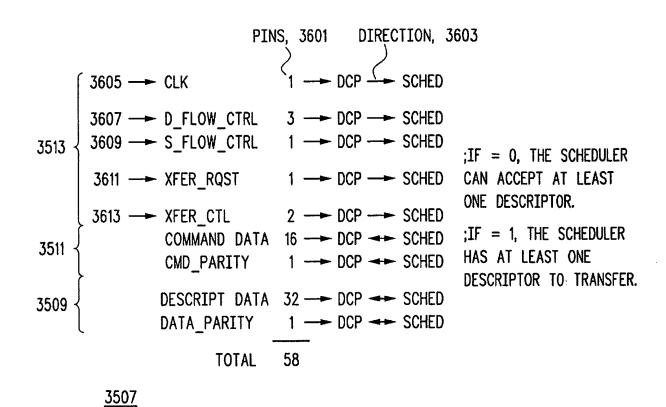


Fig. 35





FIRST COMMAND CODE, 3615

111111
5432109876543210

DESTINATION DCP PROCESSOR NUMBER, 3617

3514

Fig. 36

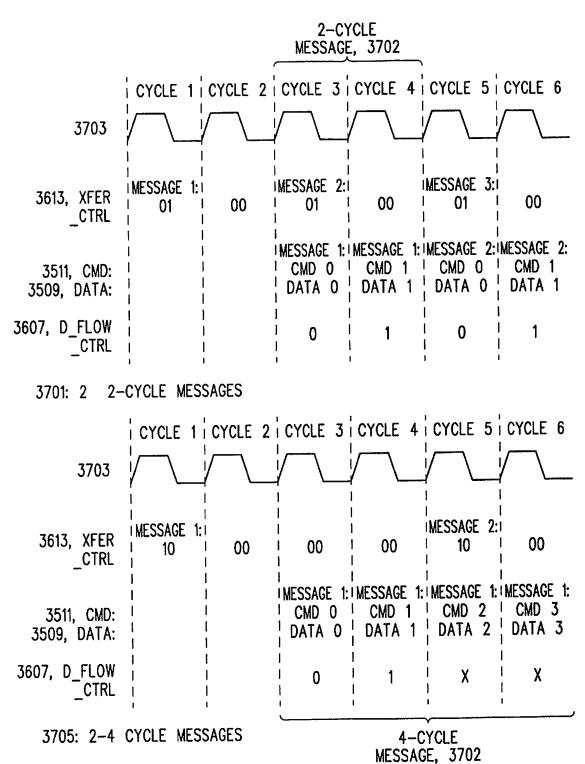


Fig. 37

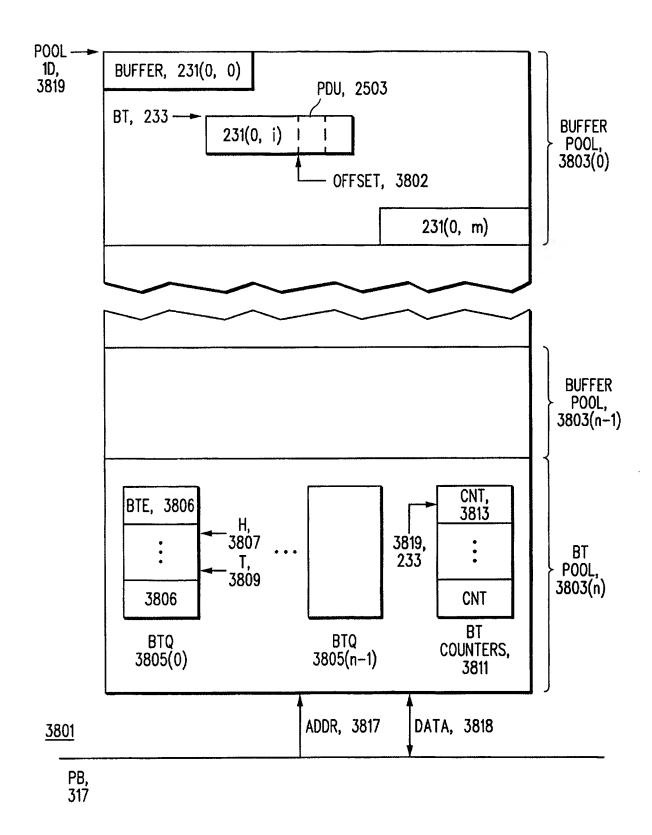
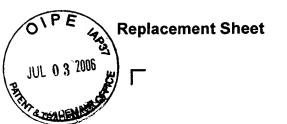
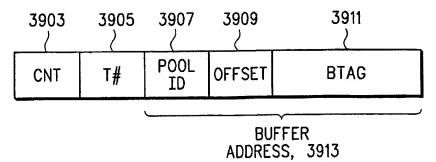
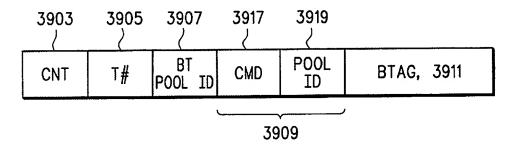


Fig. 38



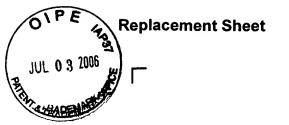


PAYLOAD BUS BUFFER READ/WRITE COMMAND, 3901



PAYLOAD BUS BTAG - COMMAND, 3915

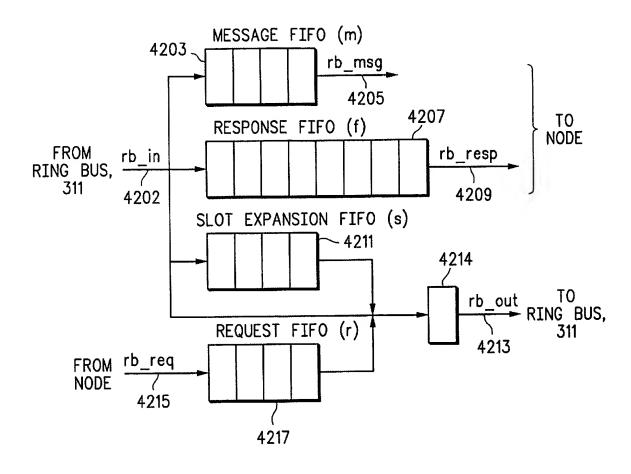
Fig. 39



RTOS, 4101					
BTAG AND BUFFER POOLS, 4103					
XP DATA MEMORY, 4105					
TRANSLATION TABLES, 4107					
PACKET PROCESSOR CODE AND DATA, 4109					
MEMORY CONFIG. INFO, 4111					

<u>229</u>

Fig. 41



RING BUS NODE INTERFACE, 4201

Fig. 42

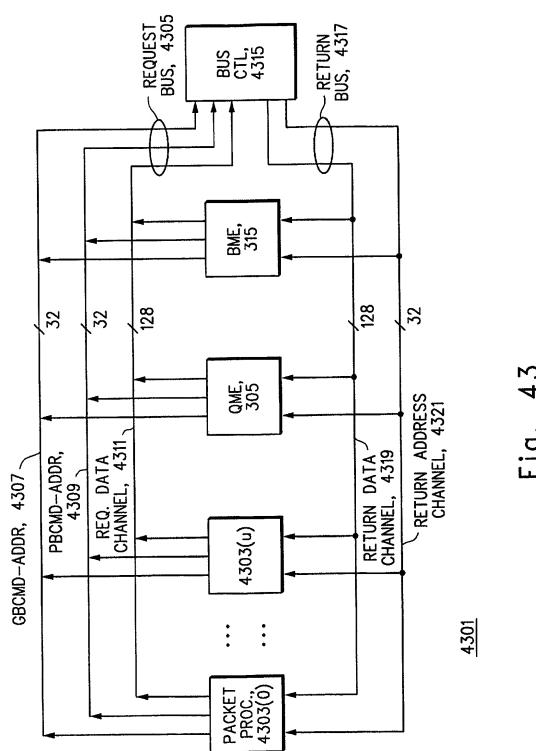
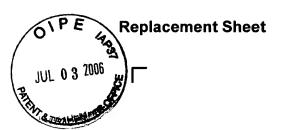
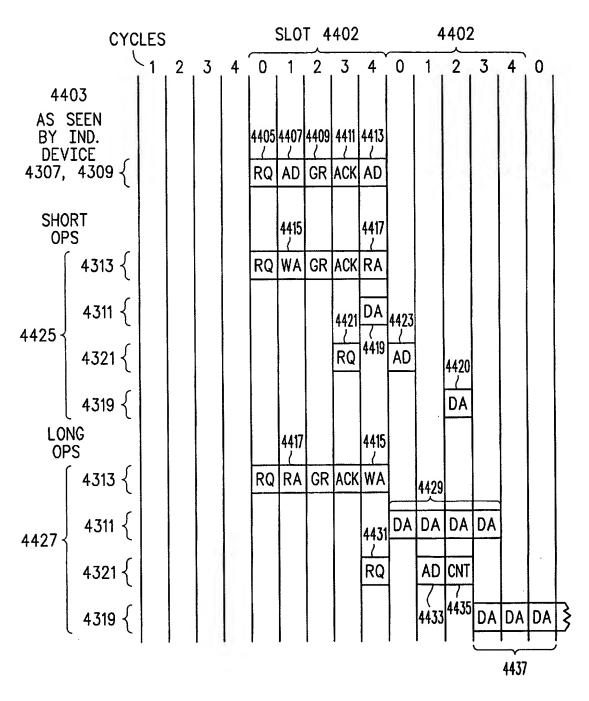


Fig. 43

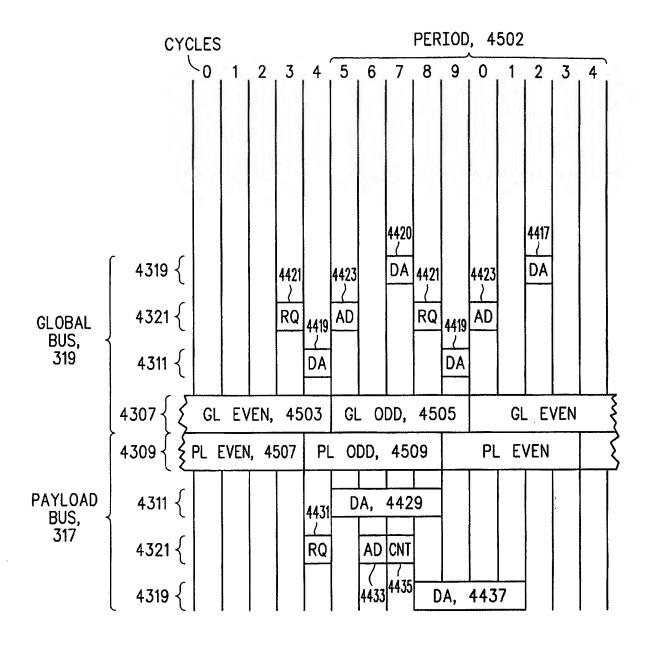




4401

Fig. 44



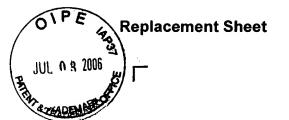


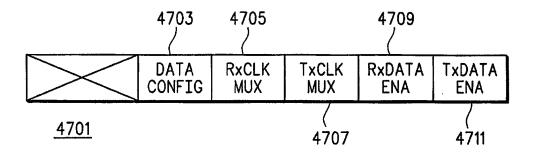
4501

Fig. 45

Replacement Sheet

4603	4605	4607	4609	4611	4613	46	15	46	17	4619
PIN	PURPOSE	RMII	0C-3	DS1	DS3	GMII (Tx)	GMII (Rx)	TBI (Tx)	TBI (Rx)	OC-12
CP0_0	OUTCLK	REF_CLK	RCLK_H	TCLK	TCLK	TCLK	nc	TCLK	nc	TCLK
_1	INCLK	CRS_DV	RCLK_L	RCLK	RCLK	CRS	nc		nc	TCLK1
_2	DATA	TXD(0)	TXD_H	TDATA	TDATA	TXD(0)	nc	TXD(0)	nc	TDX(0)
_3	DATA	TXD(1)	TXD_L	TxFRAME	TxFRAME	TXD(1)	nc	TXD(1)	nc	TDX(1)
_4	DATA	RXD(0)	RXD_H	RDATA	RDATA	TXD(2)	nc	TXD(2)	nc	TDX(2)
_5	DATA	RXD(1)	RXD_L	RxFRAME	RxFRAME	TXD(3)	nc	TXD(3)	nc	TDX(3)
_6	DATA	TX-EN	SIGNAL_DET			TX_EN	nc	TXD(4)	nc	
CP1_0	OUTCLK	REF_CLK	RCLK_H	TCLK	TCLK					
_1	INCLK	CRS_DV	RCLK_L	RCLK	RCLK	COL	nc			
_2	DATA	TXD(0)	TXD_H	TDATA	TDATA	TXD(4)	nc	TXD(5)	nc	TDX(4)
_3	DATA	TXD(1)	TXD_L	TxFRAME	TxFRAME	TXD(5)	nc	TXD(6)	nc	TDX(5)
_4	DATA	RXD(0)	RXD_H	RDATA	RDATA	TXD(6)	nc	TXD(7)	nc	TDX(6)
_5	DATA	RXD(1)	RXD_L	RxFRAME	RxFRAME	TXD(7)	nc	TXD(8)	nc	TDX(7)
_6	DATA	TX-EN	SIGNAL_DET			TX_ER	nc	TXD(9)	nc	
CP2_0	OUTCLK	REF_CLK	RCLK_H	TCLK	TCLK					
_1	INCLK	CRS_DV	RCLK_L	RCLK	RCLK	nc	RCLX	nc	RCLK	RCLK1
_2	DATA	TXD(0)	TXD_H	TDATA	TDATA	nc	RXD(0)	nc	RXD(1)	RDX(0)
_3	DATA	TXD(1)	TXD_L	TxFRAME	TxFRAME	nc	RXD(1)	nc	RXD(0)	RDX(1)
	DATA	RXD(0)	RXD_H	RDATA	RDATA	nc	RXD(2)	nc	RXD(2)	RDX(2)
_5	DATA	RXD(1)	RXD_L	RxFRAME	RxFRAME	nc	RXD(3)	nc	RXD(3)	RDX(3)
_6	DATA	TX-EN	SIGNAL_DET			nc	RX_DV		RXD(8)	FP
CP3_0	OUTCLK	REF_CLK	RCLK_H	TCLK	TCLK					
_1	INCLK	CRS_DV	RCLK_L	RCLK	RCLK			nc	RCLKN	
_2	1	TXD(0)	TXD_H	TDATA	TDATA	nc	RXD(4)	nc	RXD(4)	RDX(4)
_3	1	TXD(1)	TXD_L	TxFRAME	TxFRAME	nc	RXD(5)	nc	RXD(5)	RDX(5)
_4	DATA	RXD(0)	RXD_H	RDATA	RDATA	nc	RXD(6)	nc	RXD(6)	RDX(6)
5	DATA	RXD(1)	RXD_L	RxFRAME	RxFRAME	nc	RXD(7)	nc	RXD(7)	RDX(7)
6		TX-EN	SIGNAL_DET			nc	RX_ER	nc	RXD(9)	LOCKDET





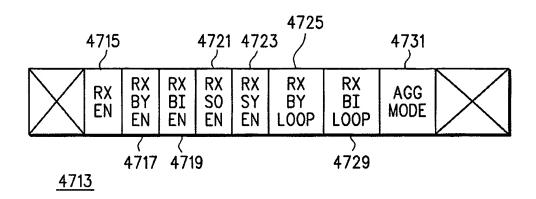


Fig. 47